

FIGURE 1: General Cloning Strategy

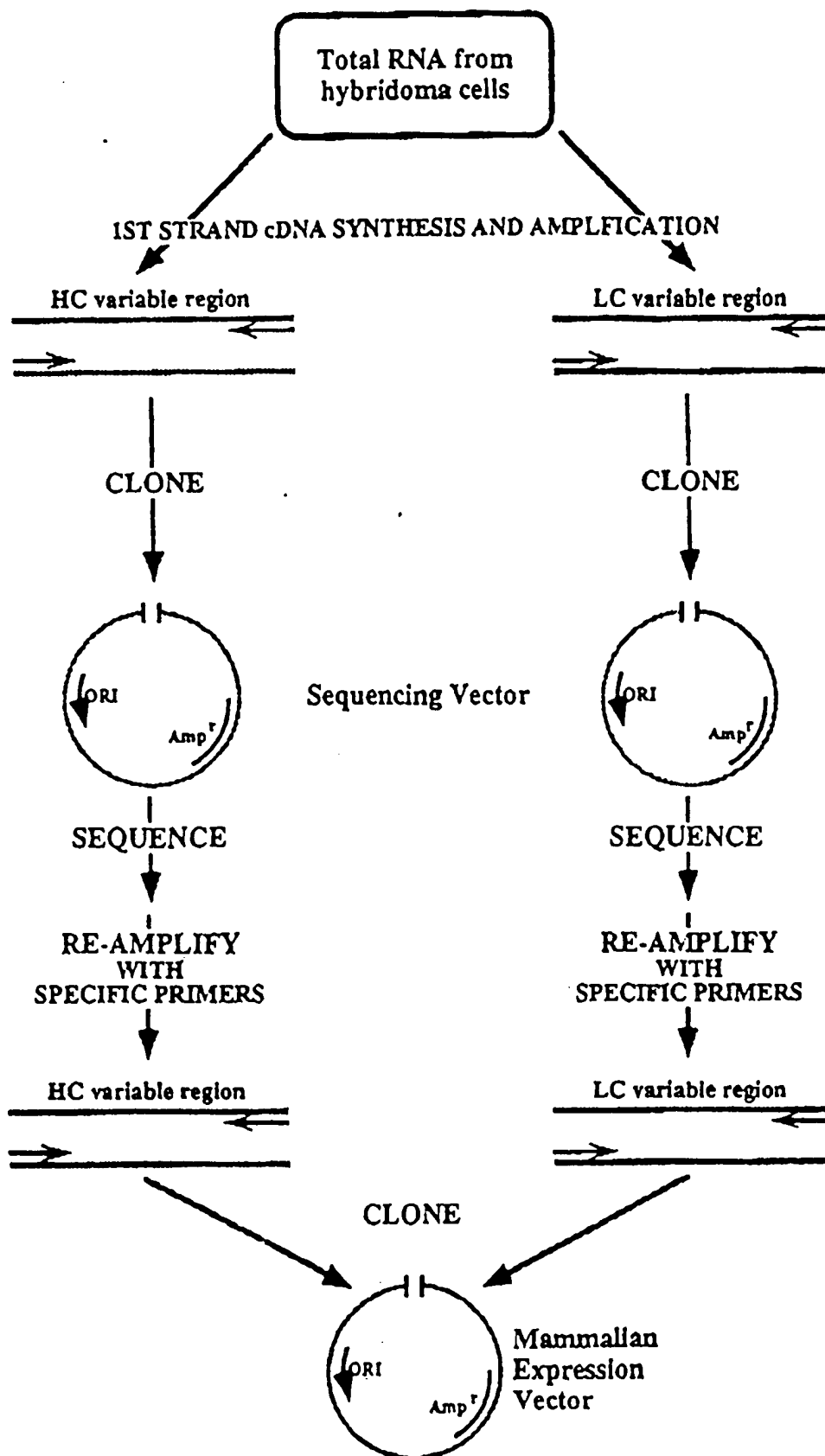


FIGURE 2

Mouse Heavy Chain "front" primers

JSS1
5'-ATTTTCAGGCCCAGCCGGCCATGGCCGARGTRMAGCTKSAKGAGWC-3' SEQ ID NO. 1
JSS2
5'-ATTTTCAGGCCCAGCCGGCCATGGCCGARGTYCARCTKCARCARYC-3' SEQ ID NO. 2
JSS3
5'-ATTTTCAGGCCCAGCCGGCCATGGCCCAGGTGAAGCTKSTSGARTC-3' SEQ ID NO. 3
JSS4
5'-ATTTTCAGGCCCAGCCGGCCATGGCCGAVGTGMWGCTKGTGGAGWC-3' SEQ ID NO. 4
JSS8
5'-ATTTTCAGGCCCAGCCGGCCATGGCCCAGGTBCARCTKMARSARTC-3' SEQ ID NO. 5

Mouse Heavy chain "back" primers

JS300
5'-GAARTAVCCCTTGACCAGGC-3' SEQ ID NO. 6

Mouse Light Chain Leader "front" primers

JSS009
5'-GGAGGCGGCGGTTCTGACATTGTGMTGWCMCARTC-3' SEQ ID NO. 7
JSS010
5'-GGAGGCGGCGGTTCTGATRRTKYGATGACBCARRC-3' SEQ ID NO. 8
JSS011
5'-GGAGGCGGCGGTTCTGAYATYMAGATGACMCAGWC-3' SEQ ID NO. 9
JSS012
5'-GGAGGCGGCGGTTCTSAAATTGWKCTSACYCAGTC-3' SEQ ID NO. 10

Mouse Light Chain "back" primer

JS153
5'-TTCATAGGCGGCCGCACTAGTAGCMCGTTTCAGYTCCARC-3' SEQ ID NO. 11
JS154
5'-TTCATAGGCGGCCGCACTAGTAGCMCGTTTKATYTCCARC-3' SEQ ID NO. 12
OKA57
5'-GCACCTCCAGATGTAACTGCTC-3' SEQ ID NO. 13

"13C4" Specific Primers

OKA144
5'-CTTGATCGCGACAGCTACAGGTGTCCACTCCAGGTGCAGCTGCAGGAG-3' SEQ ID NO. 14
OKA143
5'-GGTATGGAATTCTGAGGAGACTGTGAGAGTGGTGCC-3' SEQ ID NO. 15
OKA145
5'-GGTTCTGATATCGTGATGTCCCAGTCTCACAAATTC-3' SEQ ID NO. 16
OKA146
5'-GACATATTCGAAAAGTGTACTTACGTTTCAGCTCCAGACTGG-3' SEQ ID NO. 17

FIGURE 3

13C4 anti-STX1 heavy chain variable region

CAGGTGCAGCTGCAGGAGTCTGGGGCTGAGCTGGTGAGGTCTGGGGCCTCAGTGAGGATG SEQ ID NO. 18
Q V Q L Q E S G A E L V R S G A S V R M SEQ ID NO. 19

TCCTGCAAGGCTTCTGGCTACACATTTACCAGTTACAATATGCACTGGGTAAACAGACA
S C D A S G Y T F T S Y N M H W V K Q T

CCTGGACAGGGCCTGGAATGGATTGGATATATTTATCCTGGAAATGGTGGTACTAACTAC
P G Q G L E W I G Y I Y P G N G G T N Y

ATTGAGAAATTTAAGGGCAAGGCCATATTGACTGCAGACACATCCTCCAGCACAGCCTAC
I Q K F K G K A I L T A D T S S S T A Y

ATGCAGATCAGCAGTCTGACATCTGAAGACTCTGCGGTCTATTTCTGTACAAGAAGTCCCTCT
M Q I S S L T S E D S A V Y F C T R S P S

CACTACAGTAGTGACCCCTACTTTGACTACTGGGGCCAGGGCACCCTCTCACAGTCTCCTCA
H Y S S D P Y F D Y W G Q G T T L T V S S

13C4 anti-STX1 light chain variable region

GATATCGTGATGTCCAGTCTCACAAATTCATGTCCACATCAGTCGGAGACAGGGTCAGCATC SEQ ID NO. 20
D I V M S Q S H K F M S T S V G D R V S I SEQ ID NO. 21

ACCTGTAAGGCCAGCCAGGATGTGGGTACTGCTGTTGCCTGGTATCAGCAGAATCCAGGACAA
T C K A S Q D V G T A V A W Y Q Q N P G Q

TCTCCTAAATTTCTGATTTACTGGGCATCCACACGGCACACTGGAGTCCCTGATCGCTTCACA
S P K F L I Y W A S T R H T G V P D R F T

GGCAGTGGATCTGGGACAGATTTCACTCTCACCATTACCAATGTGCAGTCTGAAGACTTGGCA
G S G S G T D F T L T I T N V Q S E D L A

GATTATTTCTGTCAGCAATATAGCAGTTATCCTCTCACGTTCCGGTGCTGGGACCAGTCTGGAG
D Y F C Q Q Y S S Y P L T F G A G T S L E

CTGAAACGT
L K R

FIGURE 4

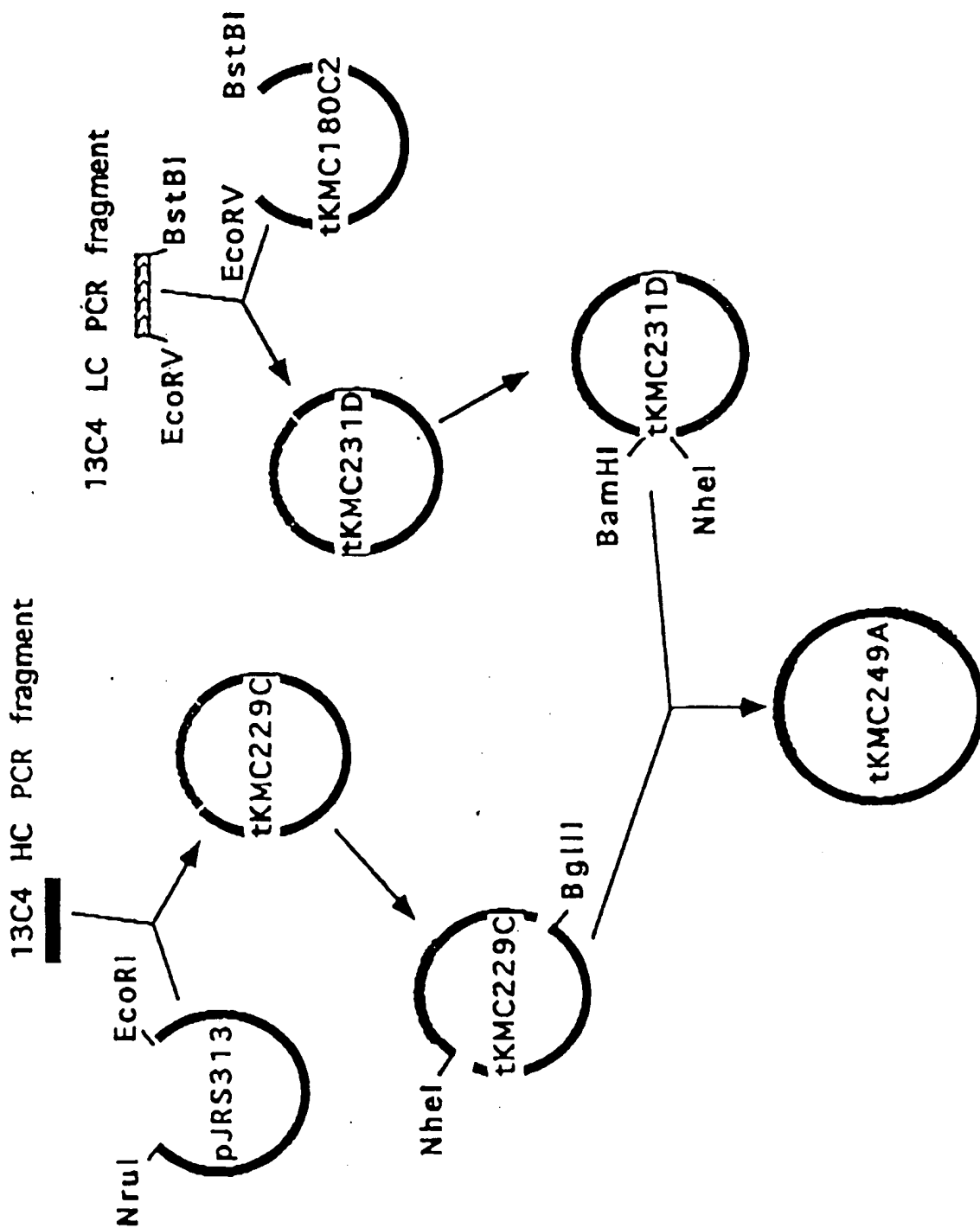


FIGURE 5

Mouse Heavy Chain "Front" Primers

JS001	5'-ATTT <u>CAGGCC</u> CAGCCGGCCATGGCCGARGTRMAGCTKSAKGAGWC-3'	SEQ ID NO. 22
JS002	5'-ATTT <u>CAGGCC</u> CAGCCGGCCATGGCCGARGTYCARCTKCARCARYC-3'	SEQ ID NO. 23
JS003	5'-ATTT <u>CAGGCC</u> CAGCCGGCCATGGCCAGGTGAAGCTKSTSGARTC-3'	SEQ ID NO. 24
JS004	5'-ATTT <u>CAGGCC</u> CAGCCGGCCATGGCCGAVGTGMWGCTKGTGGAGWC-3'	SEQ ID NO. 25
JS008	5'-ATTT <u>CAGGCC</u> CAGCCGGCCATGGCCAGGTBCARCTKMARSARTC-3'	SEQ ID NO. 26

Mouse Heavy Chain "Back" Primers

JS300	5'-GAARTAVCCCTTGACCAGGC-3'	SEQ ID NO. 27
JS160	5'-GCTGCCACCGCCACCTGMRGAGACDGTGASTGARG-3'	SEQ ID NO. 28
JS161	5'-GCTGCCACCGCCACCTGMRGAGACDGTGASMGTRG-3'	SEQ ID NO. 29
JS162	5'-GCTGCCACCGCCACCTGMRGAGACDGTGASCAGRG-3'	SEQ ID NO. 30

Mouse Light Chain Leader "Front" Primers

JS009	5'-GGAGGCGGCGGTTCTGACATTGTGMTGWCMCARTC-3'	SEQ ID NO. 31
JS010	5'-GGAGGCGGCGGTTCTGATRTTKYGATGACBCARRC-3'	SEQ ID NO. 32
JS011	5'-GGAGGCGGCGGTTCTGAYATYMAGATGACMCAGWC-3'	SEQ ID NO. 33
JS012	5'-GGAGGCGGCGGTTCTSAAATTGWKCTSACYCAGTC-3'	SEQ ID NO. 34

Mouse Light Chain "Back" Primers

JS153	5'-TTCATAGGCGGCCGCACTAGTAGCMCGTTTCAGYTCCARC-3'	SEQ ID NO. 35
JS154	5'-TTCATAGGCGGCCGCACTAGTAGCMCGTTTKATYTCCARC-3'	SEQ ID NO. 36

"11E10" Specific Primers

11E10HF	5'-ATATACT <u>CGCG</u> ACAGCTACAGGTGTCCACTCCGAAGTCCAAGTCAACAGCC-3'	SEQ ID NO. 37
11E10HB	5'-ATTAAT <u>GAATT</u> CTGCGGAGACGGTGAGAGTGGTC-3'	SEQ ID NO. 38
11E10LF	5'-TTAAAT <u>GATAT</u> CGTGCTGTCACAATCTCC-3'	SEQ ID NO. 39
11E10LB	5'-TAATCG <u>TTCGAA</u> AGTGTACTTACGTTTCAGTTCAGCTTGGTCC-3'	SEQ ID NO. 40

SEQ ID NO. 41-42

SEQ ID NO. 43-44

11E10 HEAVY CHAIN 7/23/97 12:36 PM

FIGURE 7

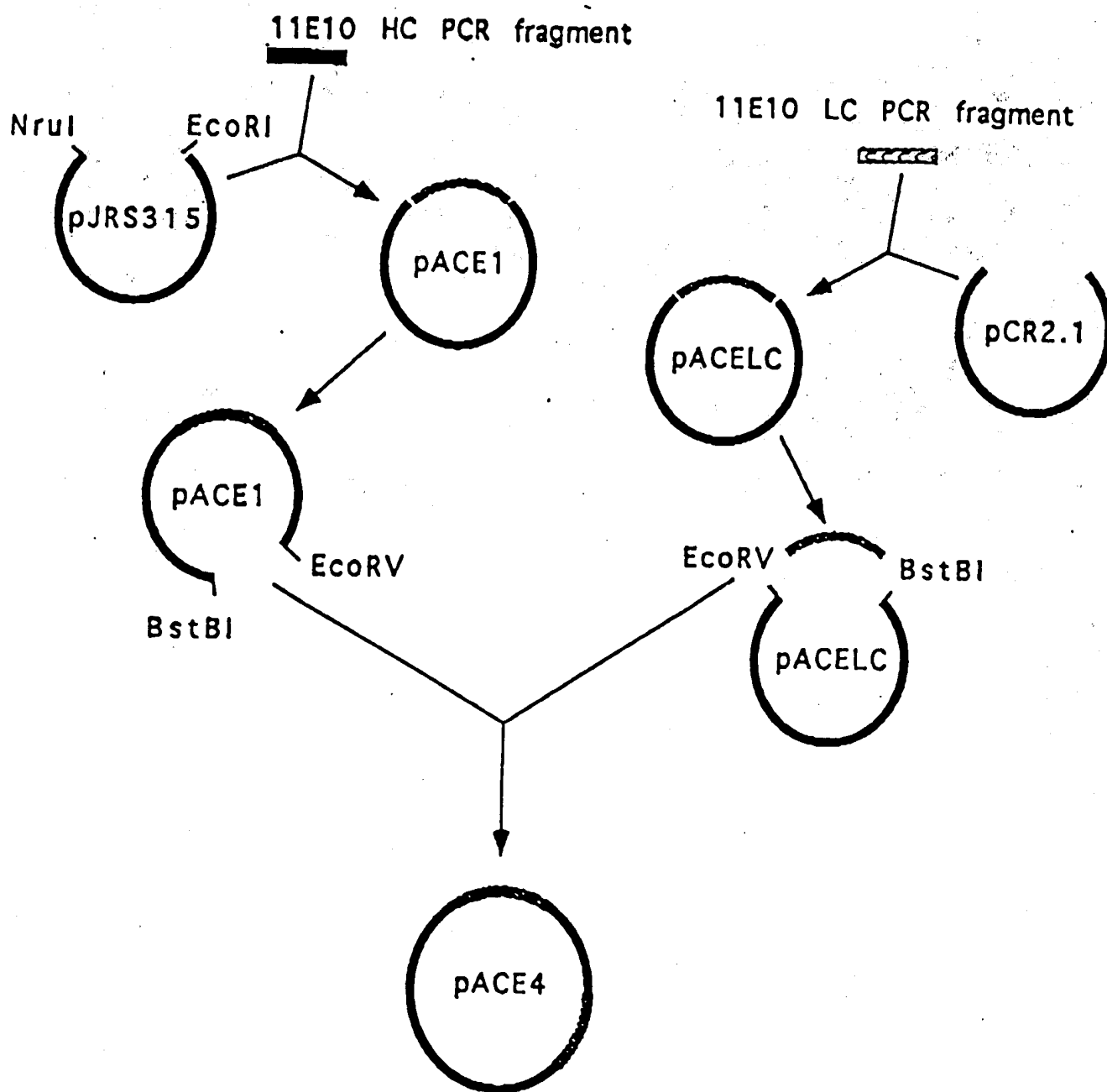
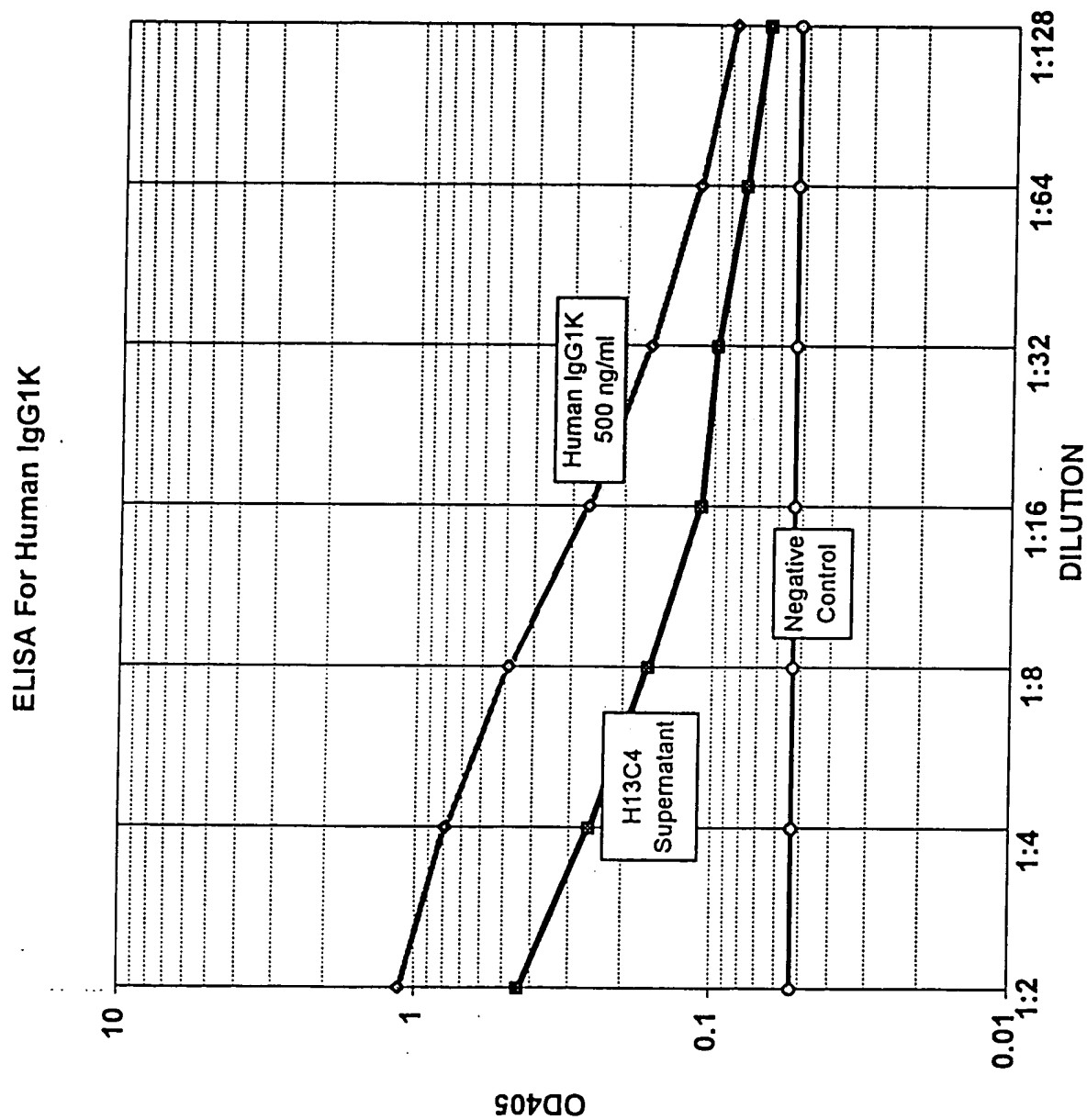
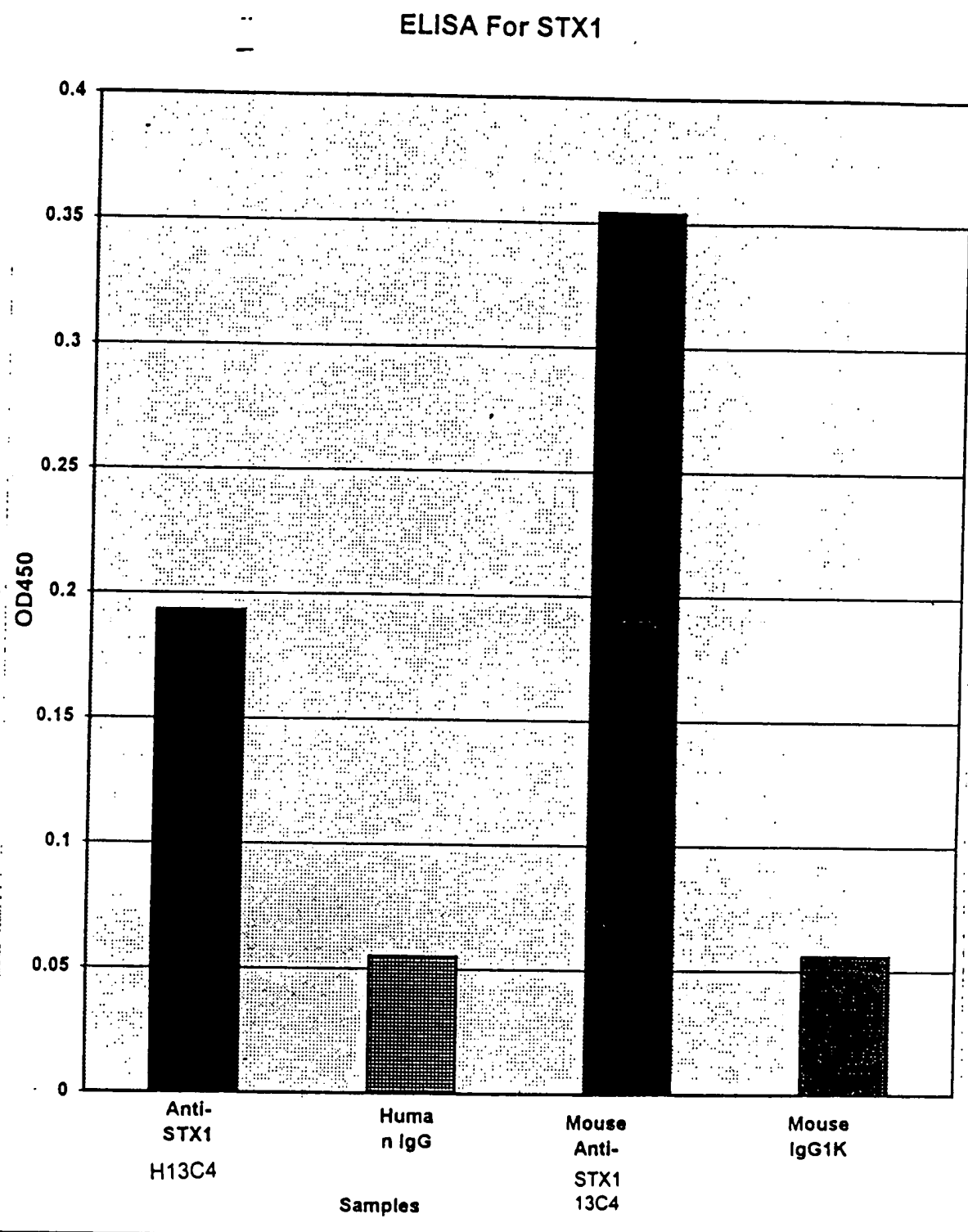


FIGURE 8



Chimeric Anti-STX1 H13C4, Human IgG1K, and culture medium (neg. control) were incubated on goat anti-human IgGFc coated microplates. The wells were probed with goat anti-human Kappa HRP conj. and reacted with ABTS. OD signals were read at 405 nm.

FIGURE 9



Chimeric Anti-STX1, Mouse Anti-STX, and Human and Mouse IgG1K were incubated on STX1 coated microplates. The wells were probed with either goat anti-human or anti-mouse IgG HRP conjugates. After reaction with TMB signals were read at 450 nm.

FIGURE 10 Anti-Stx2 Antibody Production ELISA

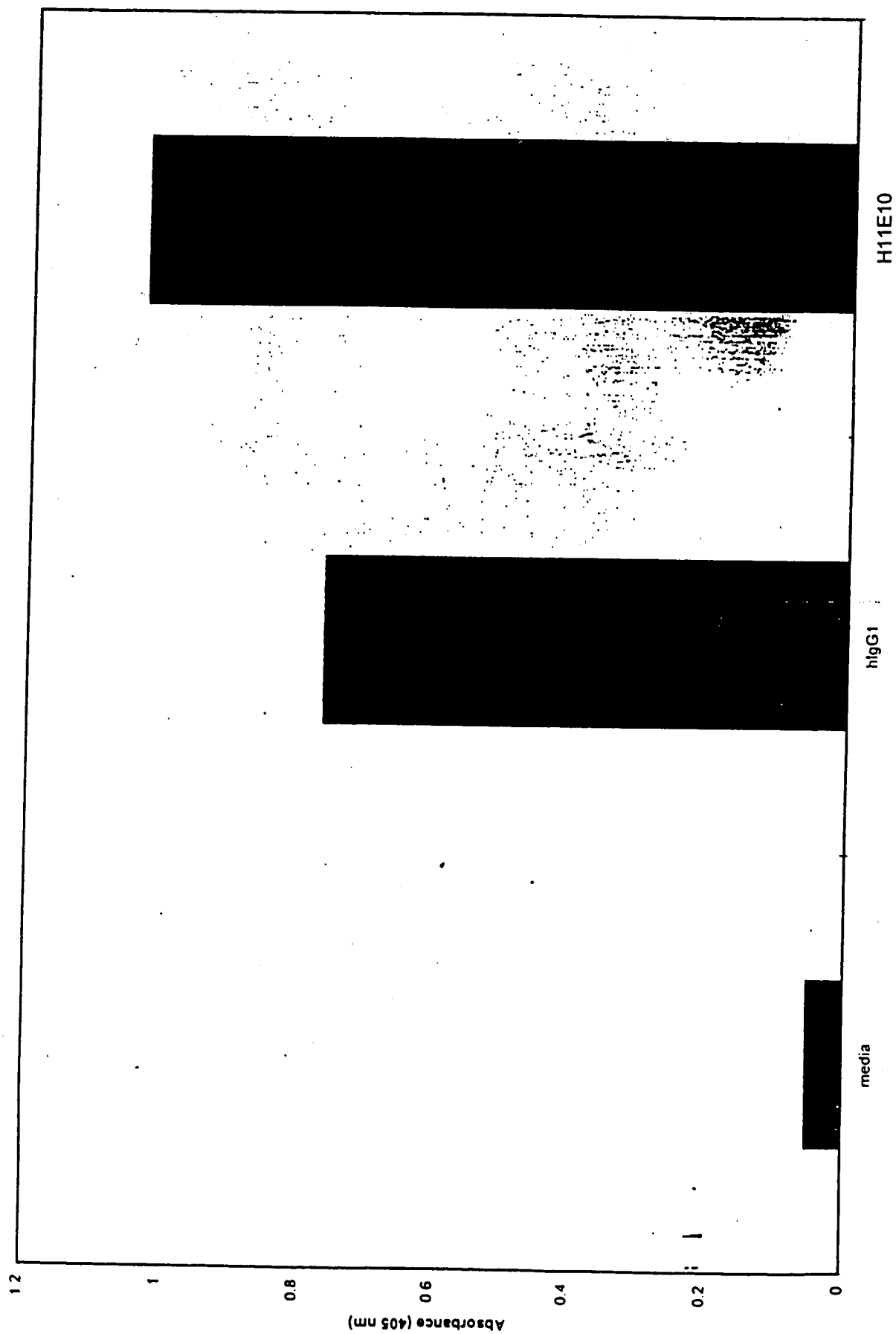
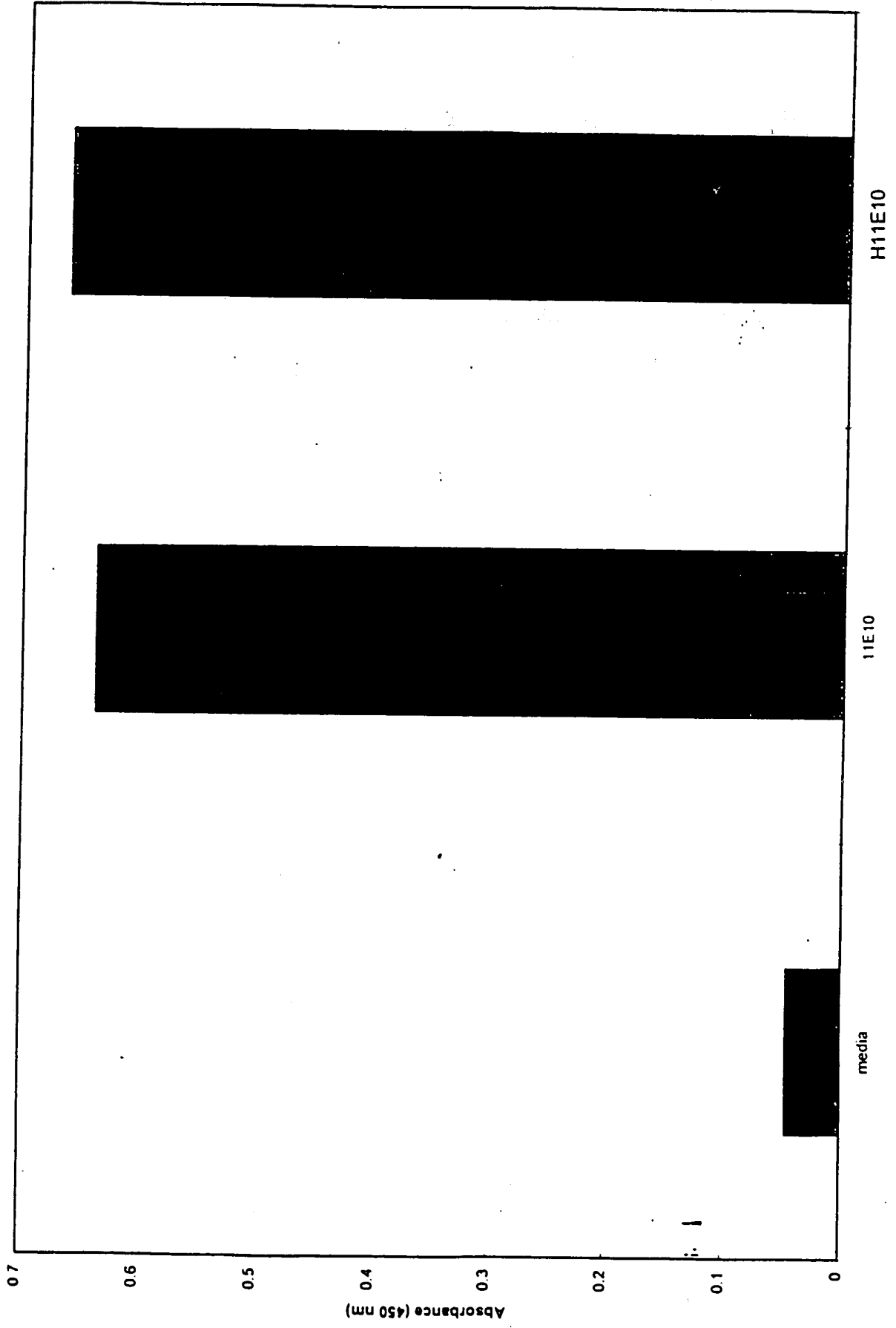


FIGURE 11
Anti-Stx2 Activity ELISA



**pCDNA3mut.LCPL.LCVK
construction:**

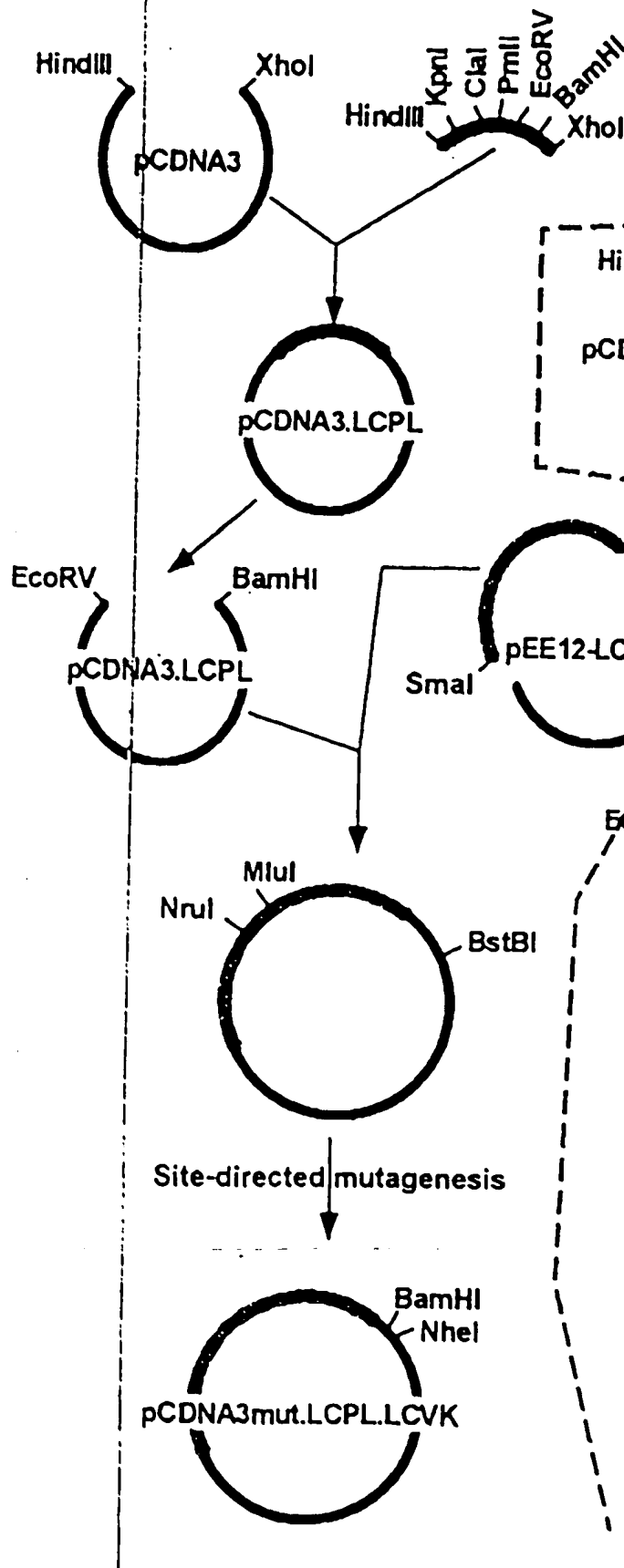


FIGURE 12

**pCDNA3mut.HCPL.HCV2b
construction:**

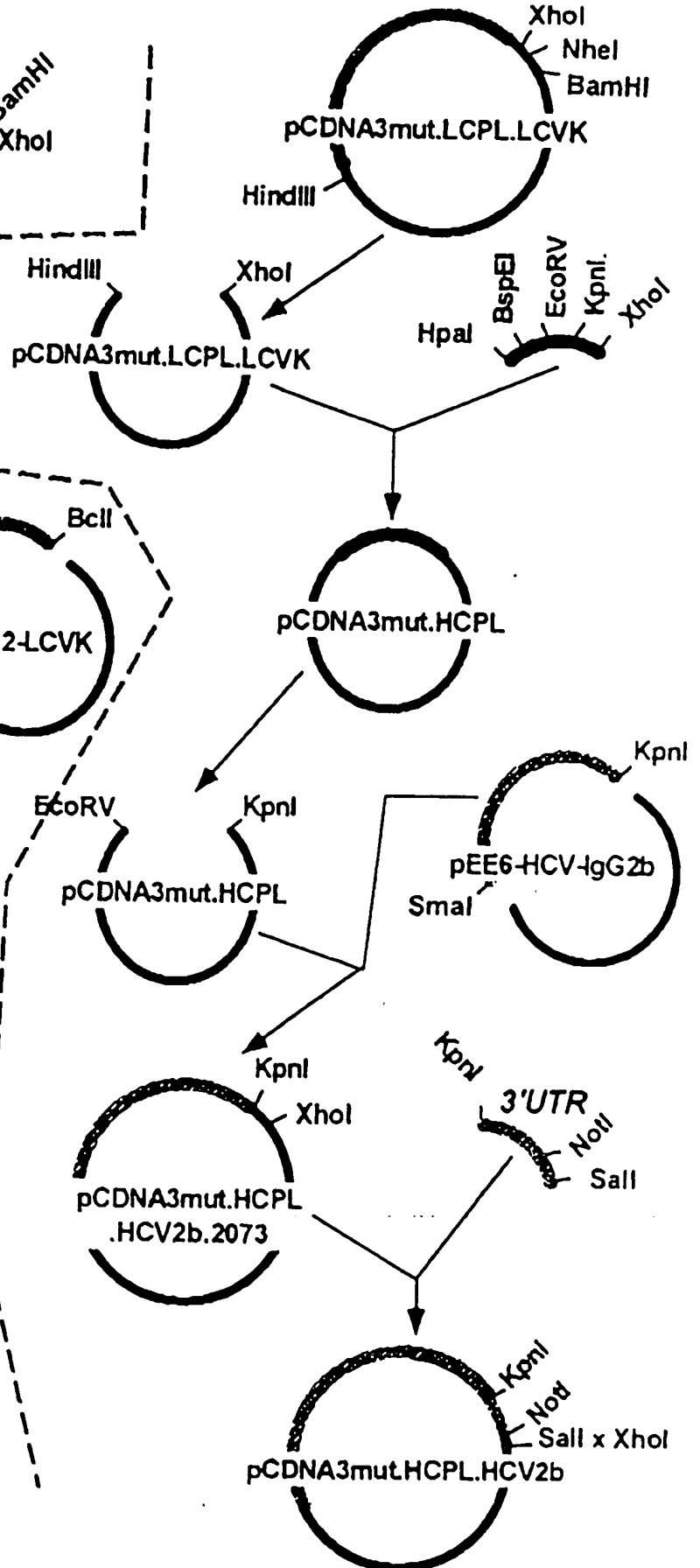


FIGURE 13

pSUNs, 9:Kappa and pSUN10, 10:IgG1 constructions:

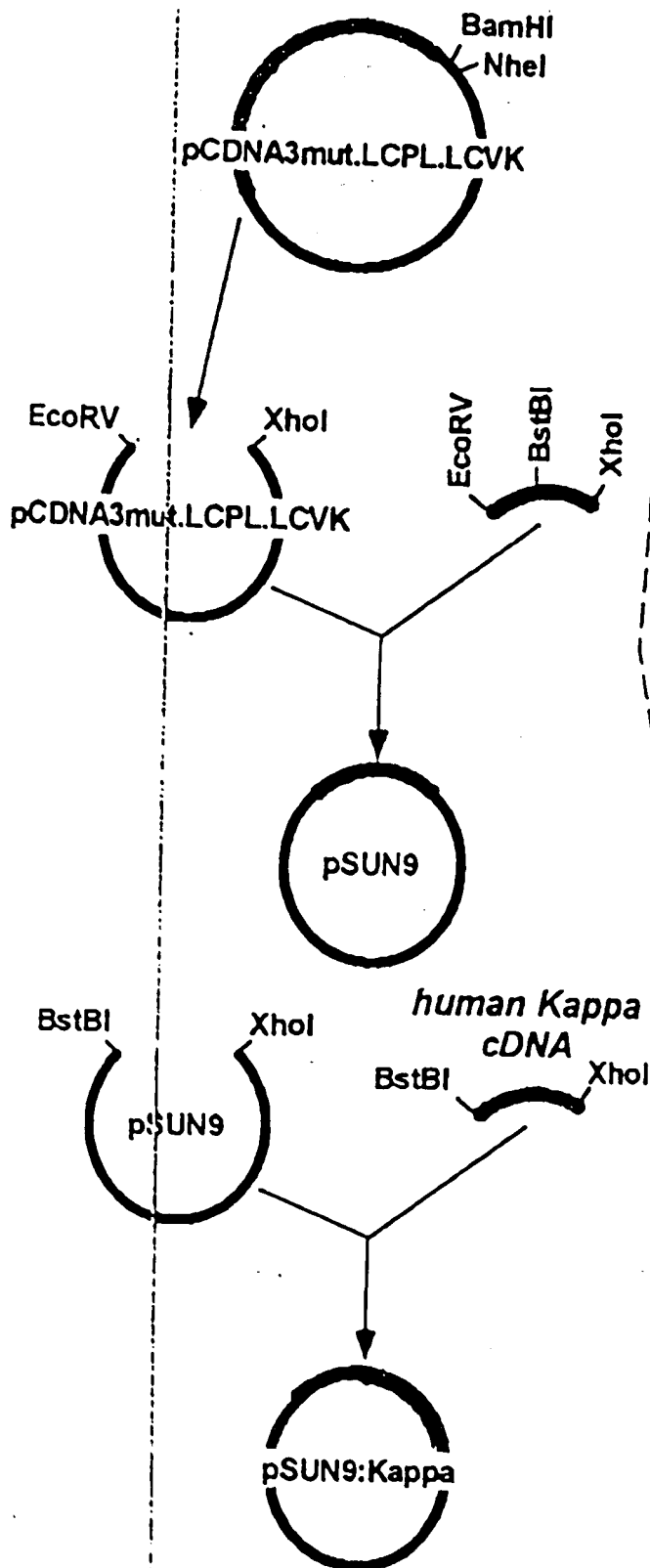


FIGURE 14

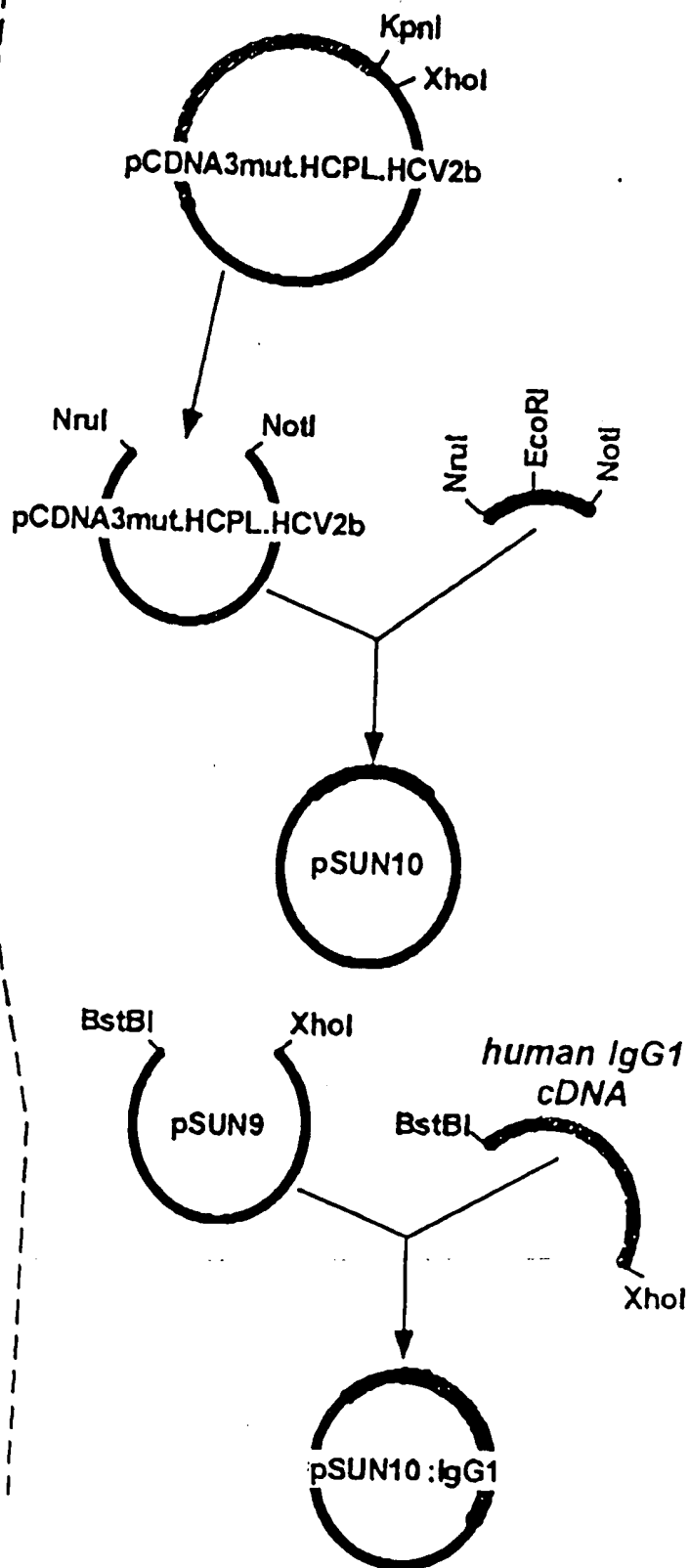


FIGURE 15

**pJRS311
construction:**

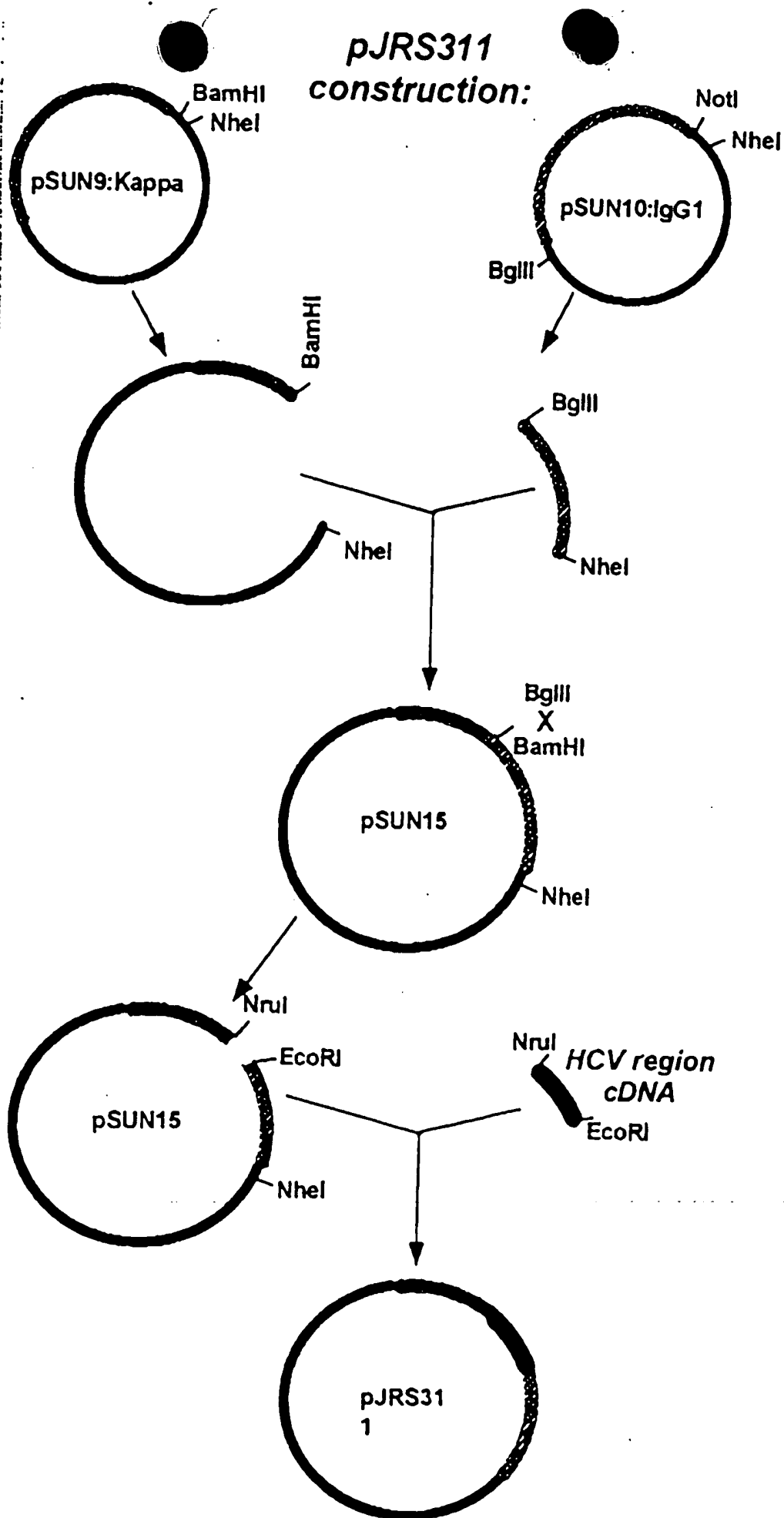


FIGURE 16

**pJRS315
construction:**

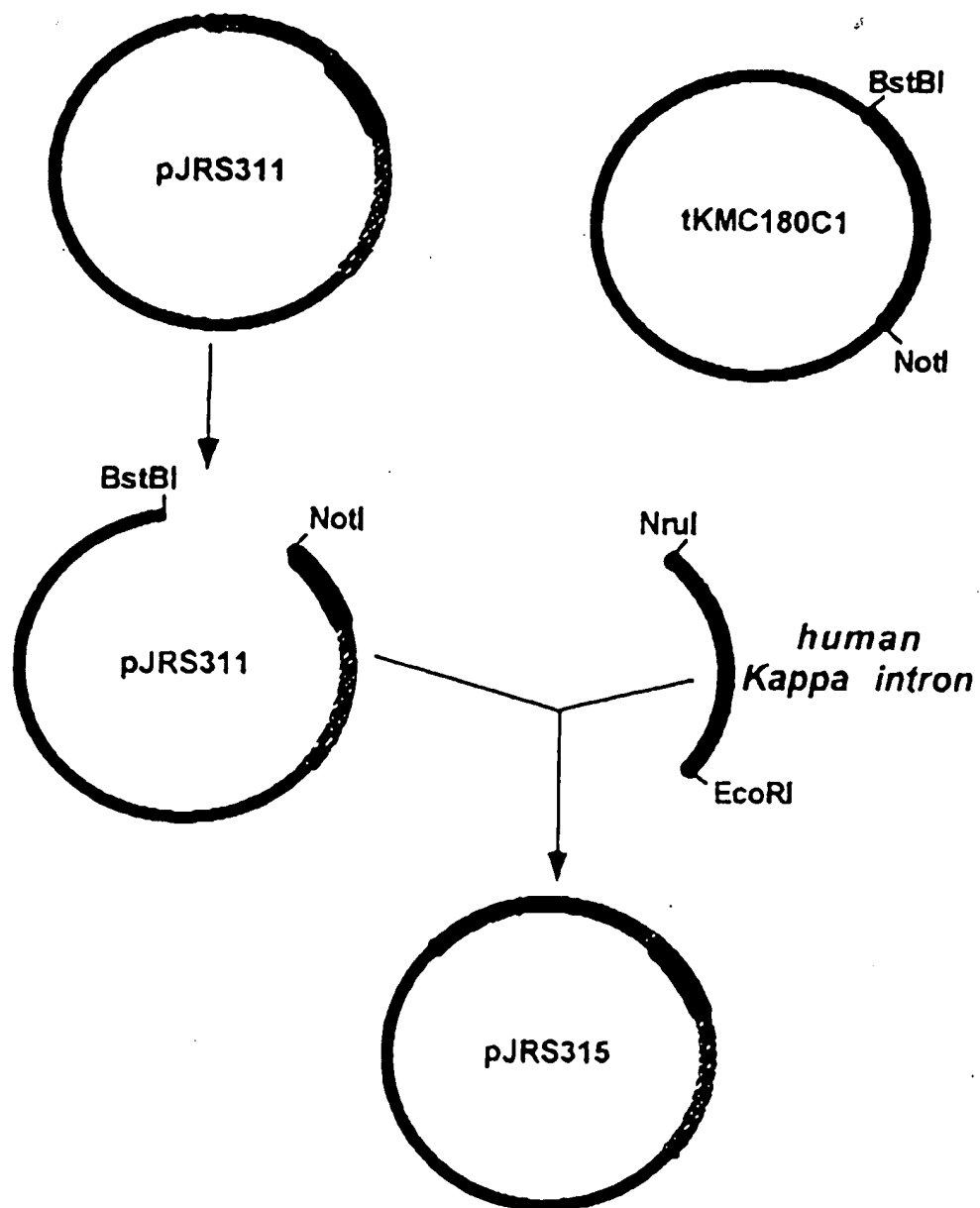


FIGURE 17